FLAME SENSOR

FS-1000E (Power: 33' (10m) contact)

11111

TAKEX



Flame sensor FS-1000E quickly detects ultraviolet rays contained in flames and activates a built-in alarm sound plus an open collector output.

Features

POWER SUPPLY

The FS-1000E can be powered from either type-3 alkaline battery x 2 pcs, or an external power source 9 \sim 30 VDC depending on the application. Optional power source can be from a long life lithium battery.

• EXTERNAL OUTPUT TO A SECURITY SYSTEM

Equipped with a form A (N/O) open collector output, FS-1000E can be connected to a security control panel. Alternatively the output signal can be used to initiate a warning device, e.g. bell, siren etc., when used with an external DC power supply.

• OPERATION SET-UP BY DETECTION TIMER

The alarm will be activated only when the sensor detects a flame (ultraviolet rays) in accordance with the detection timer. The 3 following detection times are selectable by a slide switch located on the sensor body.

H: 0.2 sec. M: 1 sec. L: 6 sec.

• OTHER FEATURES

- The internal alarm sounder output is greater than 80dB at 3.3' (1m) in front of the sensor. The internal sounder can be disconnected by cutting a jumper wire if required when using an external DC power supply.
- Compact design enables FS-1000E to be installed at any location. Easy separation of the sensor unit from the base simplifies installation and maintenance.
- Low battery When using a battery power source, low battery condition is annunciated by an internal buzzer and external LED.
- Power up

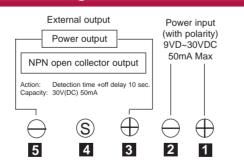
When power is turned on, an alarm sound is activated. If no alarm sound is activated, check the power source.

Specifications

Model	Flame Sensor
Model Number	FS-1000E
Detection System	Ultraviolet rays detection
	(Detected wave length 180 ~ 260 mm)
Detection Area	33' (10m) (2.75"(7cm) lighter frame, in front)
Detection Angle	Approx. 120° (conically)
Detection Timer	3 steps changeover by slide switch
	H: (0.2 sec.), M: (1 sec.), L: (6 sec.)
	•Type-3 alkaline battery (LR6) x 2(3V) accessory
Power Supply	 Exclusive lithium battery (CR17450E-R-2-CM2) x 1 (3V)optional
	 External power supply 9VDC to 30VDC with polarity
	Stand by : 50µA Max. when battery power supply
Current Consumption	5mA Max. when external power supply
	Alarm : 50mA Max. when buzzer sounds
	Indication: Red LED
LED	Alarm: Flashing every 0.2 sec. during off-delay approx. 10 sec.
	(Low battery: Light on 0.1 sec, every approx. 5 sec.)
	Alarm: Sounds intermittently every 0.2 sec. during off-delay 10 sec.
Buzzer	Low battery: Sound 0.1 sec. intermittently every approx. 5 sec.
	Volume: 80dB or more 33' (10m) ahead
	(Silent setting is available by cutting internal jumper line)
	NPN open collector output
External Output	(useful as an output with voltage when external power is used)
	30V DC/ 50mA, off-delay 10 sec. continuous output
Wiring Method	Terminals
	-10°C to +60°C (+14°F to +140°F) without condensation
Ambient Temperature	Battery performance may decrease
	under 0°C(+32°F) or beyond +40°C (+104°F)
Installation Places	Indoor (Ceiling or wall mount)
Weight	Approx. 200g (7oz) including battery (accessory) 50g (1.8oz)
External Dimensions	ø4.72" (120mm) x H 1.58" (40mm)
External Appearance	ABS resin(white)
F.F	•Exclusive battery case of Type-3 x 2 pcs. x 1
Accessory	 Type-3 alkaline battery LR6 x 2
	 Sensor locking screw Ø3 x 6, x 1
	•Tapping screw Ø4 x 25, 2
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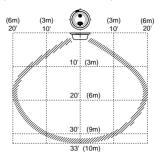
Due to ongoing product improvements, specifications may change without notice.

Terminal Arrangement

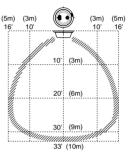


Coverage (m/feet)

(FRONT VIEW : CEILING MOUNT) (TOP VIEW : WALL MOUNT)

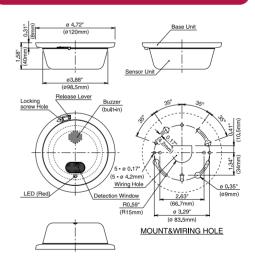


(SIDE VIEW : CEILING & WALL MOUNT)



Condition of Detection Area Detection Timer : H (0.2 sec.) Size of Flame : Approx. 2.75" (7cm) Origin of Flame : Gas Lighter

Physical Dimensions (mm/inch)



Note: This sensor is designed to detect intrusion and to initiate an alarm. It is not a burglar-preventing device. TAKEX is not responsible for damages or losses caused by accidents, thefts, Acts of God (including inductive lightning), abuses, misuses, abnormal usages, faulty installation or improper maintenance.



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FS-1000E DS-12 03 (CRI-150)